

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An inverter transformer which is provided in an inverter circuit to invert DC into AC, and which transforms a voltage inputted at a primary side and outputs the transformed voltage at a secondary side, the inverter transformer comprising:

at least one winding unit comprising a bar-shaped magnetic core, and a primary winding and a secondary winding wound around the bar-shaped magnetic core; and

a magnetic resin formed of a resin containing a predetermined amount of a magnetic substance, substance to thereby obtain predetermined magnetic characteristics, the magnetic resin having a predetermined thickness and covering at least one predetermined portion of the winding unit with respect to a core length direction, wherein magnetic characteristics, coverage area, and thickness of the magnetic resin are adjusted so that direction to thereby define a predetermined coverage area, whereby the primary and the secondary windings have respective predetermined leakage inductances, and

wherein influence caused by leakage flux and imposed on components and wires arranged around the inverter transformer is reduced while influence coming from outside and given to magnetic characteristics of the inverter transformer is reduced.

2. (Original) An inverter transformer according to Claim 1, wherein the magnetic resin covers an entire portion of the winding unit with respect to the core length direction.

3. (Original) An inverter transformer according to Claim 1, wherein the magnetic resin covers, with respect to the core length direction, at least one of: both end portions of the winding unit; and a portion of the winding unit located at a boundary area between the primary and secondary windings.

4. (Previously Presented) An inverter transformer according to Claim 1, wherein an external unit having a larger saturation magnetic flux density than the magnetic resin is disposed so as to cover at least one portion of a circumference of a transformer body which comprises the at least one winding unit and the magnetic resin.

5. (Original) An inverter transformer according to Claim 4, wherein the external unit has a smaller magnetic resistance than the magnetic resin.

6. (Previously Presented) An inverter transformer according to Claim 4, wherein the external unit has one of a squared C configuration and a substantially circular configuration in cross section so as to cover the circumference of the transformer body.

7. (Previously Presented) An inverter transformer according to Claim 4, wherein the external unit comprises a plurality of members, and the members are combined into a box configuration so as to cover the transformer body.

8. (Previously Presented) An inverter transformer according to Claim 4, wherein the external unit is made of a sintered material.

9. (Previously Presented) An inverter transformer according to Claim 1, wherein the magnetic resin has a smaller relative magnetic permeability than the bar-shaped magnetic core.

10. (Previously Presented) An inverter transformer according to Claim 1, wherein the magnetic substance contained in the resin is one of Mn-Zn ferrite, Ni-Zn ferrite, and iron powder.